

Notice of Allowability

Application No.

10/648,771

Examiner

Michael Y. Won

Applicant(s)

HAMYNEN, KIMMO

Art Unit

2155

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed February 5, 2007 and Interview conducted on March 28, 2007.
2. ☒ The allowed claim(s) is/are 1,3-7,10-13,15,21,23,25-31,33,35,42 and 44 (re-numbered 1-24).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date Attached.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

1. This action is in response to the amendment filed February 5, 2007.
2. Claims 1, 15, 23, 42, and 44 have been amended.
3. Claims 1-7, 10-13, 15, 16, 21, 23-31, 33, 35, and 42-45 have been examined and are pending with this action.

EXAMINER'S AMENDMENT

5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
6. Authorization for this examiner's amendment was given in a telephone interview with Andrew T. Hyman (Reg. No. 45,858) on March 28, 2007.
7. The application has been amended as follows:

In the specification, Page 7, lines 5-7, please replace:

~~FIG 7~~ FIG 7(a) – FIG 7(c) shows glyphs of a particular set of characters, as viewed at various angles.

~~FIG-8~~ FIG 8(a) – FIG 8(c) shows glyphs of another particular set of characters, as viewed at various angles.

1. **(Currently Amended)** A method comprising:

using a camera unit to acquire a raw visual light image that contains a written uniform resource locator, locator;

converting the raw visual light image to an electronic ~~image~~, image;

having a mobile device locate and recognize glyphs of at least one particular standardized set of uniform resource locator characters in the electronic image, using the said characters as a flag to provide a location of the rest of the uniform resource locator, wherein the glyphs include "http" or "www";

approximating an angle between a plane of at least one of the glyphs and a plane perpendicular to a line of sight from the camera;

compensating for said angle before attempting extraction of remaining parts of the uniform resource locator;

~~zooming in on the uniform resource locator after having the mobile device locate the uniform resource locator;~~

attempting to extract remaining parts of the uniform resource locator from the electronic image after locating and recognizing the glyphs;

sending the results of the extraction attempt in a request signal to a web server in order to access an internet ~~site~~, site;

processing a reply from the web server, ~~and~~ ; and

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presenting the internet site.

2. (Currently Cancelled)

4. (Currently Amended) The method of ~~claim 2~~ claim 1, wherein the certain character is the letter "o".

15. (Currently Amended) A system comprising:

a camera, responsive to a raw visual light image that contains a written uniform resource locator, the camera being configured to provide an electronic image signal indicative of the raw visual light image;

a uniform resource locator extraction device, responsive to the electronic image signal, the extraction device being configured to find and recognize glyphs of at least one particular standardized set of uniform resource locator characters in the electronic image using said characters as a flag to locate the rest of the uniform resource locator, said characters including "http" or "www";

wherein the uniform resource locator extraction device is also for using the glyph of a certain character to approximate an angle between a plane of said glyph of the certain character and a plane perpendicular to a line of sight from the camera, and compensating for said angle before attempting recognition of remaining parts of the extractable uniform resource locator;

~~wherein the camera is further configured to zoom in on the uniform resource locator after the uniform resource locator extraction device has found the uniform resource locator;~~

wherein said extraction device is also configured to provide a uniform resource locator request signal indicative of results of attempting to extract remaining parts of the uniform resource locator that are extracted from the electronic image signal after finding and recognizing the glyphs;

wherein the system further comprises an internet interface, responsive to the uniform resource locator request signal, the internet interface being configured to provide a web site signal indicative of an internet site accessed via the internet; and

wherein the system further comprises a display, responsive to the web site signal, for presenting the internet site.

16. (Currently Cancelled)

21. (Currently Amended) The system of ~~claim 16~~ claim 15, further comprised of an editing tool, for manually amending the results if they are different from the written uniform resource locator.

23. (Currently Amended) A mobile device comprising:
an initiation device, configured to send an instruction to obtain a raw visual light image which includes glyphs of at least one standardized set of uniform resource

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locator characters, including "http" or "www," wherein the characters are used as a flag to provide a location of the rest of the uniform resource locator;

a camera, responsive to the instruction from the initiation device, the camera being configured to receive the raw visual light image and configured to provide an electronic image signal indicative of the raw visual light image, ~~and the camera being further configured to zoom in on the uniform resource locator after locating the uniform resource locator;~~

a display, responsive to a web site signal indicative of an internet site accessed by attempting to extract a uniform resource locator from the raw visual light image, wherein the attempt occurs after the mobile device locates, ~~and recognizes the glyphs,~~ and uses one of the glyphs for approximating an angle between a plane of said glyph and a plane perpendicular to a line of sight from the camera, and configured to compensate for said angle; and

an internet interface, configured to provide the web site signal to the display after communicating with the internet.

24. (Currently Cancelled)

26. (Currently Amended) The mobile device of ~~claim 24~~ claim 23, wherein the one of the glyphs is the letter "o".

35. **(Currently Amended)** A computer-readable storage medium or media, encoded with a data structure for performing the method of claim 1.

42. **(Currently Amended)** An apparatus comprising:

means for sending an instruction to obtain a raw visual light image which includes glyphs of at least one standardized set of uniform resource locator characters, including "http" or "www," wherein the characters are used as a flag to provide a location of the rest of the uniform resource locator;

means, responsive to the instruction for receiving the raw visual light image and for providing an electronic image signal indicative of the raw visual light image, ~~and also for zooming in on the uniform resource locator after locating the uniform resource~~ locator;

means for displaying, responsive to a web site signal indicative of an internet site accessed by attempting to extract a uniform resource locator from the raw visual light image, wherein the attempt occurs after the locating, ~~and recognizing the glyphs, and~~ using at least one of the glyphs to approximate an angle between a plane of said glyph and a plane perpendicular to a line of sight from the camera, and configured to compensate for said angle; and

means for providing the web site signal to the means for displaying, after communicating with the internet.

43. **(Currently Cancelled)**

44. **(Currently Amended)** A software product for use in a mobile terminal, the software product comprising a computer readable storage medium having executable codes embedded therein; the codes, when executed, being adapted to carry out the functions of:

using a camera unit to acquire a raw visual light image that contains a written uniform resource ~~locator~~, locator;

converting the raw visual light image to an electronic ~~image~~, image;

having a mobile device locate and recognize glyphs of at least one particular standardized set of uniform resource locator characters in the electronic image, using the said characters as a flag to provide a location of the rest of the uniform resource locator, wherein the glyphs include "http" or "www";

approximating an angle between a plane of one of the glyphs and a plane perpendicular to a line of sight from the camera;

compensating for said angle before attempting extraction of remaining parts of the uniform resource locator;

~~zooming in on the uniform resource locator after having the mobile device locate the uniform resource locator;~~

attempting to extract remaining parts of the uniform resource locator from the electronic image after locating and recognizing the glyphs;

sending the results of the extraction attempt in a request signal to a web server in order to access an internet site, processing a reply from the web server, ~~and~~ ; and

presenting the internet site.

45. (Currently Cancelled)

Allowable Subject Matter

8. Claims 1, 3-7, 10-13, 15, 21, 23, 25-31, 33, 35, 42, and 44 are allowable over prior art of record and in light of Examiner's Amendments and arguments presented in Amendment filed February 5, 2007.

9 The following is an examiner's statement of reasons for allowance:

The prior art of record does not disclose, teach, or suggest neither singly nor in combination the claimed limitation of "using the said characters as a flag to provide a location of the rest of the uniform resource locator, wherein the glyphs include "http" or "www"; approximating an angle between a plane of at least one of the glyphs and a plane perpendicular to a line of sight from the camera; compensating for said angle before attempting extraction of remaining parts of the uniform resource locator" as recited in independent claim 1 and similarly recited in independent claims 15, 23, 42, and 44.

10. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Y. Won whose telephone number is 571-272-3993. The examiner can normally be reached on M-Th: 7AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on 571-272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael Won

A handwritten signature in black ink, appearing to read 'Michael Won', with a large, stylized flourish at the end.

March 29, 2007